

Columbia State Community College

2019 Governor's Investment in Technical Education
(GIVE)

PROGRAM TITLE: Engineering Systems Mobile Classroom

LEAD ENTITY: Columbia State Community College

FISCAL AGENT: Columbia State Community College

IN PARTNERSHIP WITH:

1. Columbia Machine Works
2. Boys and Girls Club of Maury County
3. Smelter Services
4. GCP Applied Technologies
5. TENNECO
6. TALOS Engineering Products
7. APCOM
8. Maury County Chamber and Economic Alliance
9. South Central Tennessee Workforce Alliance
10. Lawrence County School System
11. Williamson County Schools
12. Hickman County Schools
13. Giles County School System
14. Maury County Public Schools
15. TCAT Pulaski

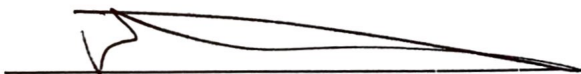
PROJECT DIRECTOR:

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Funding requested: \$1,000,000



Dr. Janet F. Smith, President



Mehran Mostajir, Project Director

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Abstract/ Project Summary

To help reach the Tennessee's "Drive to 55" goal, this TN GIVE Grant application proposes an Engineering Systems Mobile Classroom. With the funding from this grant, high school and TCAT students will be able to work toward an Associate of Applied Science or technical certificate from Columbia State Community College in Engineering Systems Technology. The first year courses will be taught as dual credit at the high schools or transferred from TCAT Pulaski toward the degree at Columbia State Community College.

To accommodate the flexibility in location, funding of this grant would afford the purchase of a Box Truck that will be transformed into the "Engineering Systems Mobile Classroom". The mobile classroom will be equipped with the more advanced training equipment than currently exists at both the high schools and TCATs. An instructor from Columbia State would drive the Mobile Classroom to different high schools during different days of the week so that the students would be able to use and practice on state-of-the-art equipment and technology. Courses are designed so that the students can study online and do practical exercises when the Mobile Classroom arrive is onsite. As such, this grant project would make college a reality by bringing college to students who do not always have transportation, time, and resources to attend college and earn a degree.

The AAS in Engineering Systems Technology requires students to enrolled in a credit bearing internship experience. Funding from this grant project would also increase the number of WBL opportunities in engineering and engineering related occupations.

Program Proposal

Section 1: Demonstration of Need

Columbia State Community College serves nine counties in southern middle Tennessee: Hickman, Lawrence, Lewis, Marshall, Maury, Perry, Wayne, and Williamson. Within its service area, Columbia State Community Colleges has five campuses with an overall enrollment of over 6,400 students. The College has a solid working relationships with each school district in its service area including the districts that will partner with Columbia State on this grant proposal: Giles County School System, Hickman County Schools, Lawrence County Schools, Maury County Public Schools, and Wayne County Schools. Columbia State also has strong relationships with TCAT Hohenwald and TCAT Pulaski also within College's service area.

Columbia State Community College confers Associate of Applied Science (AAS) and Technical Certificate in the Engineering Systems Technology. According to the *2019 Academic Supply and Occupational Demand Report*, Engineering and Engineering-Related occupations are in high demand state-wide and in Southern Middle Tennessee. Maury County Chamber and Economic Alliance indicates growth in this region with over 4500 jobs that will needs skilled Engineering Technicians at new plants currently being built in Maury County and the surrounding region. At least one internship is a required credit course in the AAS in Engineering Systems Technology program. This means that 100% of the graduates will have had a Work Based Learning (WBL) opportunities when they graduate.

Data from Job4TN.gov shows that there is only one qualified engineering or engineering technician candidate per three job openings or a supply shortage of 0.37.

To illustrate the acuteness of the qualified applicant shortage, GCP Applied Technologies reached out to Columbia State Community College requesting help with their recruitment. This is in light of the fact that GCP Applied Technologies had to temporarily lower their minimum hiring age of 21 to age 18 o be able to reach to hire enough qualified workers.

Grant proposal for the Engineering systems Mobile Classroom will provide the opportunity for high school students as well as high school graduates to learn college level education that includes courses in both freshman and sophomore year. This will increase the number of students with either a certificate or an AAS degree and provide the skilled labor for the positions available in lower Middle Tennessee job market. The local high schools in the proposed counties do not offer a college degree or courses toward a designed college degree. This funding from this grant proposal make that a reality as it has been successfully implemented at Fairview High School in Williamson County and at East Hickman High School in Hickman County. Additionally three high schools at Maury County provide the freshman courses as dual credit but funding from this grant proposal will help students to complete their AAS or certificate degree in Engineering Systems Technology.

Further, this grant proposal requests funding to increase the associated WBL opportunities and revisiting the current Engineering Systems Technology internship course, ENST 2391, to align with the *WBL Framework*. The internship does have a set of learning outcomes that align with both the curriculum and the WBL placement. Additionally, the course already requires interaction with both career professionals and supervisor, and assess student proficiency within the context of the learning outcomes.

With funding for this grant proposal, this internship would require exploration of student interests and alignment with academic program choice, ensure there were multiple opportunities to explore different aspects of potential career and sufficient time to develop employability and career skills,

Wage information for Williamson County, the most affluent county in the service area is used as the benchmark to determine if the occupations associated with these programs constitute a living wage. This is an ambitious yardstick, using this benchmark would clearly demonstrate the viability of graduates in the Engineering Systems Program. According to the MIT Living Wages Calculator, the annual income to constitute a living wage for one adult in Williamson County is \$24,408. The average salary as Engineering Technician in middle Tennessee is \$49,495 which is more than twice the targeted benchmark.

Each student would be required to manage an e-portfolio. With guidance from WBL Coordinator and faculty advisor, the student would populate his or her e-portfolio with evidence of learning (e.g., Employability Skills Checklist) and proficiency with requisite professional and employability skills and knowledge (e.g., self-assessment, reflection, work log). Student's experience will be guided by the TN WBL Implementation Guide. The students would also be required to post their gained experiences that show their understanding and reflection of the skills they gained as it relates to his or her interests and career goals.

By partnering with Giles County School System, Hickman County Schools, Maury County Public Schools, and Wayne County Schools, this grant proposal should increase the pipeline in the Engineering Systems Technology program. This is

particularly important as the 2017 Higher Education Profile on the TN Drive to 55 website compiled by TSAC indicates that annually 13 additional students from Giles County must enroll in college to increase the county's college –going rate by five percent. This annual number is 12 for Hickman County, 23 for Lawrence, 39 for Maury, and 9 for Wayne County. All told, this is 85 students. The increase in the “college going” rate can be increased by the funding of the Engineering Systems Mobile Classroom. For this grant project, the proposed target is to increase the “college going rate” by at least 75 annually and 150 over the course of the 30-month TN GIVE Grant period. The target was derived given the following parameters: a.) average high school graduation rate according to for the five school district partners is 89% and b.) not all students will be interested in engineering as the most popular majors are health science related at Columbia State. Additionally, the overall target gives the grant project six months to purchase equipment and train the high school teachers and two full years of implementation. This target represents an increase in the “college going rate” of approximately 4.5% as designated by the TN Drive to 55 for these counties. This will be accomplished by increasing high school student awareness and interest in engineering careers by providing college tours for the students or making presentations at their high schools. Teachers and counselors will be educated and be able to better help students entering this program.

Section 2. Project Plan

The Project Plan is seen in Table 1 below. Engineering Systems Technology at Columbia state Community College is a program that is offers both online and

experiential learning opportunities. The students learn the concepts online and practice their required skills using the training equipment set-up in the Engineering Systems Technology Mobile Classroom.

Currently, dual credit high school courses offered at the high schools are either dual credit or provided via dual enrollment. For dual credit classes, the courses are taught by the trained high school teachers and laboratory examinations and final examinations are given by the Columbia State faculty. Students receive credit for their dual credit courses once they graduate from high school. The College also offers dual enrollment courses that are taught by Columbia State instructors. Students first enroll in the program and as they complete the dual enrollment courses, they are recorded at Columbia State toward their Engineering Systems Technology degree. Examples of those articulation agreement are shown in Appendix B.

The funds from this grant proposal will be used to purchase required training equipment for the high schools at partnering counties based on their inventory. The funds will also be used to purchase a box truck and more advanced trainers than is currently available at the high schools. The advanced trainers such as robots will be installed in the box truck. The box truck will be driven by Columbia State instructor to the participating high schools in its service area on scheduled days so that dual enrolled student would be able to complete their lab work without traveling to the Columbia Campus.

Table 1. Project Plan

Description	Start Date	End Date	Metric
Form Advisory Board committee	11/4/2019	11/29/2019	Hold the first meeting before the end date, determine sub committee(s)
Complete Articulation with Giles, Wayne and Lawrence counties	11/1/2019	1/30/2020	
Sub committees to work with industry partners and develop WBL opportunities	1/6/2020	1/31/2020	Approved proposals for WBL
Place Order for the Box Truck	11/4/2019	3/31/2020	Possession of the box truck
Include modification to the truck			verify insulation, climate control system, stairs to the box truck, ADA ramp
Place order for the Amatrol Trainers	11/11/2019	4/30/2020	Trainers are received and installed at the high schools and box truck
Fit the trainers inside the box truck	5/1/2020	5/29/2020	
Training high school instructor for the dual credit courses EETC 1311 and ENST 1360	6/1/2020	7/31/2020	Teachers receive certificates of completion
Hire a new instructor	12/1/2020	4/30/2020	New teacher will start on June 1st, 2020
First group of FAME students are selected	3/9/2020	4/30/2020	Graduates that are starting new or have EST credits will be in the FAME program Students with AAS or Certificate will start working in summer
Advisory Board meeting	5/1/2020	5/29/2020	Second Advisory Board to be held during this month
WBL update			
First group of FAME students start working	6/1/2020		
Determine the days the box truck will be travelling to counties	7/1/2020	7/31/2020	Complete the schedule
Mobile unit at East Hickman and Maury other counties will be ready in Fall 2021	Aug-20	Mar-22	
first Survey students, faculty, and industry partners	10/1/2020	10/30/2020	First feedback of the project from students and teachers
Present data to the Advisory Board	11/2/2020	11/20/2020	Third Advisory Board Meeting
Sub committees to work with industry partners and	1/4/2021	1/29/2020	Approved proposals for WBL with industry partners
Second midterm survey of Students, faculty, and partners	3/1/2021	3/31/2021	Second feedback of the project from students and teachers
Second group of FAME students are selected	3/8/2021	4/30/2021	Graduates that are starting new or have EST credits will be in the FAME program Students with AAS or Certificate will start working in summer
Present data to the Advisory Board	5/3/2021	5/31/2021	Fourth Advisory Board Meeting
Second group of FAME students start working	6/1/2021		
Training high school instructor for the dual credit courses ENST 2361 and EETC 2361	6/1/2021	7/30/2021	Teachers receive certificates of completion
Review students graduation status in AAS or Certificate in EST	7/5/2021	7/30/2021	Evaluate instructors and students based on the student's grades and their progress toward CSCC degree
Third Survey students, faculty, and industry partners	10/4/2021	10/29/2021	Third feedback of the project from students and teachers
Present data to the Advisory Board	11/2/2021	11/19/2021	Fifth Advisory Board Meeting
Third group of FAME students are selected	3/7/2021	4/29/2021	Graduates that are starting new or have EST credits will be in the FAME program Students with AAS or Certificate will start working in summer

An Advisory Board will be appointed to oversee the program. Representatives to include CTE Directors of the Giles, Hickman, Lawrence, Maury, and Wayne counties. Business representatives that would be participating in the WBL will be invited to serve the Advisor Board as well as faculty from Columbia State Community College, TCAT partners, and Chief Operating Officer from South Central Tennessee Workforce Alliance (SCTWA). The Advisory Board will serve a two-year term with option to represent the up to six years. The advisory board will meet at least twice a year. The project director will initially chair and oversee the Advisory Board. Advisory Board will determine the sub committees such as WBL.

The College in partnership with high schools, TCAT, and industry partners through this program produces graduates with certificates or AAS degree from Columbia State Community College. In turn, this will help each school district included in this grant proposal reach and surpass their “college going rate” by increasing the number of students who complete a college credential by at least 100 students for the duration of the grant to support the TN Drive to 55 initiative.

In this grant project surveys will be administered to students, faculty, and industry partners to help measure the progress in this report. The Advisory Board representatives play an important role in evaluating progress but reviewing the survey results. Pass rates for dual credit and dual enrollment courses will also be tracked as will the proportion of students who are admitted and subsequently enrolled in the Engineering Systems Technology program at Columbia State.

WBL opportunities will be continued to be woven into the articulation agreements/curricular pathways. These WBL placements will require attendance at

work site of at least 20 hours a week with a schedule that includes at least one full-day (8 hours). See Appendix A for the letters of support from the industry partners. There will be flexibility in these requirements as the size and type of business of the industry partners varies greatly. Each employment site will provide supervision and evaluation of the student's performance. The proposed WBL placements can be:

1. If a student completes his or her high school diploma without taking any Engineering Systems Technology dual enrollment courses but are interested in receiving the AAS in Engineering Systems Technology then they can apply through the Federation for Advanced Manufacturing Education (FAME) program where they will be able to work at an industry partner site three days a week and go to school two days a week as they study toward their degree.
2. If a student is taking dual credit and dual enrollment courses toward their degree at CSCC, then they can be placed at one of the industry partners with assistance from South Central TN Workforce Alliance (SCTWA). SCTWA supports employers of by assuming the costs such as payroll and Worker's Compensation. The students can complete their degree while still in high school or shortly after by completing the missing courses at CSCC.
3. The students will be taking their dual enrollment courses through TCAT Pulaski where they would be able to take some of their high school courses as dual enrollment. They will be able to receive credit upon completing their certificate at TCAT Pulaski and enrolling at CSCC. Students will be able to do their WBL as an intern by taking internship course that is a required for the Engineering Systems Technology program.

As seen, this grant proposal affords great flexibility to students by allowing them to study online at no or little cost. Therefore, this should be very attractive to non-traditional and underrepresented student groups who do not have transportation or cannot afford driving to a college site. If funded, this grant project the Engineering Systems Engineering Systems Technology Mobile Classroom would travel to the student the combination of the college degree through a CTE program at high school makes enrollment very attractive to the underrepresented students especially minority, economically disadvantaged, and students with disabilities

Section 3: Strength of Partnerships

Letters of Support / Agreement (LOS/A) and Memorandum of Understanding (MOUs) from the participating school districts, TCAT Pulaski, and industry partners are available in the Appendix A. The LOS/A demonstrates the extent of commitment and evidence that all partners are engaged.

As an example, in 2016 Engineering Systems Technology program at CSCC initiated the Maury County Manufacturing Day. In this initiative a joint alliance between Maury County Chamber and Economic Alliance, businesses like Columbia Machines Works, General Motors, GCP Applied Technology, Landmark Tiles, Maury County Schools and Columbia State Community College Engineering Systems Technology faculty arranged for the students from three high schools to visit their plants and learn about manufacturing. They also visit Columbia State Community College and learn how they can get job by studying at places like CSCC.

Section 4: Budget Plan

The Budget Plan is shown in Appendix C. Detailed information about the costs associated with each budget line is also provided.

Section 5: Sustainability

This is a program that will be able to sustain itself after the duration of the 30-month TN GIVE Grant period. The Advisory Board is represented by members that support and are already committed to the expansion of engineering and engineering related educational opportunities. Additionally, funds to support this grant project after the conclusion of the grant will be available via the increase in the number of dual enrollment student. Also, there will be increase in the number of students that will participate in “FAME”.

Students from the five counties participating in this grant will be dual enrolled during their junior and senior years at the high school. The expected number of dual enrolled students in the AAS in Engineering Systems Technology program and resulting revenues is based the grant proposal's target of an increase of 75 students annually that will attend college. This additional tuition revenue, \$90,000, will support this grant project after the conclusion of the 30-month TN GIVE Grant period. As FAME students, industry partners will be pay \$500 per student. The estimated additional number of Engineering Systems Technology students after the conclusion of the grant will be 50 which results in an additional \$20,000 per year. In total, that is \$111,000 additional revenue annually to sustain this grant project.

Section 6: Economic Status Acknowledgment

Wayne County Schools has committed to this grant proposal as shown in Appendix A. Wayne County Schools teachers and the CTE Director will participate in workshops provided by the funding of this grant proposal. The workshops will provide training to the high school teachers assigned to the associate high school courses that confer dual credit. They will learn how to demonstrate the use of equipment as well as instructional methods to support student practice and mastery on the equipment in the Engineering Systems Mobile Classroom.

Appendix A: Memorandum of Understanding/Letters of Commitment from Grant

Partners

1. Columbia Machine Works
2. Boys and Girls Club of Maury County
3. Smelter Services
4. GCP Applied Technologies
5. TENNECO
6. TALOS Engineering Products
7. APCOM
8. Maury County Chamber and Economic Alliance
9. South Central Tennessee Workforce Alliance
10. Lawrence County School System
11. Williamson County Schools
12. Hickman County Schools
13. Giles County School System
14. Maury County Public Schools
15. TCAT Pulaski

AGREEMENT BETWEEN
Columbia State Community College AND
COLUMBIA MACHINE WORKS INC.
TN GIVE GRANT: Engineering Systems Mobile Classroom
November 1, 2019- March 31, 2022

This document attests COLUMBIA MACHINE WORKS INC. support of Columbia State Community College's 2019 TN GIVE Grant, *Engineering Systems Mobile Classroom*. Upon the awarding of TN Give Grant funds associated with this proposal and TBR approval, COLUMBIA MACHINE WORKS INC. agrees to the following:

1. Offer at least one work-based learning (WBL) experiences for Columbia State Engineering Systems Technology students associated with this grant. The WBL students will be hired through State of Tennessee Work Force Development (WFD). Specifically, the WBL will
 - a. Be at least for 180 hours.
 - b. It will be a paid work experience with a suggested starting hourly pay rate of at least \$12.50
 - c. Students will work for a minimum of 20 hours a week with at least one full day (e.g., 8 hours)
 - d. Grant will reimburse up to 50% of the hourly pay rate.
 - e. Employed students will have an assigned supervisor with professional and/or academic training that aligns with WBL that will evaluate the student at regular intervals
 - f. practice and demonstrate proficiency of knowledge & skills that typically performed by a permanent professional in field, demonstrate ability to solve real work problems in a typical work setting, and participate in professional development or opportunities to build on these skills.
 - g. Will allow scheduled site visits of the WBL Coordinator to evaluate student in work setting
2. A representative designated by COLUMBIA MACHINE WORKS INC. could serve on the Community Based Advisor for this grant

Both COLUMBIA MACHINE WORKS INC. and Columbia State Community College shall comply with all applicable State and Federal laws and regulations, including without limitation with the Family Educational Rights and Privacy Act (FERPA) and College policies and guidelines in the performance of this agreement.

This Agreement shall be effective for the period commencing on November 1, 2019 and ending on March 31, 2022. This agreement may be terminated by either party by giving written notice to the other at least thirty (30) days before effective date of termination.

IN WITNESS WHEREOF:

COLUMBIA MACHINE WORKS INC.:

John Langsdon, President

Date

9/5/19

Columbia State Community College:

Janet F. Smith, Ph.D., President

Date

Tennessee Board of Regents:

Dr. Flora W. Tydings, Chancellor

Date



**BOYS & GIRLS CLUBS
OF MAURY COUNTY**

210 West 8th Street · Columbia, TN 38401
931-490-9401 PH · 931-490-9431 FAX

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Chairman

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Jonathan Hardin

Cathy Malone

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Andy Marshall

Dr. Christa Martin

Missy Meador

Hazel Nieves

Dr. Kent Pardon

Eric Previti

Terry Smith

Thomas Sneed

Tim Thomas

Michael Williams

Christian Wyatt

DATE: September 4, 2019

RE: Columbia State Community College 2019 TN GIVE Grant Proposals

To Whom It May Concern,

The Boys & Girls Clubs of Maury County greatly supports Columbia State Community College's 2019 TN GIVE Grant proposals.

- 1.) *Integration of WBL into Curricular Pathways*
- 2.) *Cyber Defense Mobile*
- 3.) *Film Crew Technology, Machinery, & Set Construction*
- 4.) *Engineering Systems Mobile Classroom*

Upon the awarding of TN Give Grant funds associated with these grant projects and TBR approval, Boys & Girls Club of Maury County will help to endorse the curricular pathways enhanced or created as a result of this grant project. Additionally, Boys & Girls Clubs of Maury County will support student participation in these curricular pathways and associated work-based learning opportunities.

As part of the support, Boys & Girls Club of Maury County also acknowledges the 30-month duration of the TN GIVE Grant period of November 1, 2019-March 31, 2022 and agrees to work with Columbia State within that TN GIVE Grant period.

Boys & Girls Clubs of Maury County

Robyn B. Peery

September 4th, 2019

Robyn Peery, Chief Executive Officer

Date

Columbia State Community College

Janet F. Smith, Ph.D., President

Date



AGREEMENT BETWEEN
Columbia State Community College AND
Smelter Service Corporation
TN GIVE GRANT: Engineering Systems Mobile Classroom
November 1, 2019- March 31, 2022

This document attests Smelter Service Corp. support of Columbia State Community College's 2019 TN GIVE Grant, *Engineering Systems Mobile Classroom*. Upon the awarding of TN Give Grant funds associated with this proposal and TBR approval, Smelter Service Corp. agrees to the following


- 1 Offer at least one work-based learning (WBL) experiences for Columbia State Engineering Systems Technology students associated with this grant. The WBL students can be hired through the South Central TN Workforce Alliance (SCTWA). Specifically, the WBL will
 - a Be at least for 160 hours
 - b. It will be a paid work experience with a suggested starting hourly pay rate of at least \$12.00
 - c Students will work for a minimum of 10 hours a week with at least one full day (e.g., 8 hours)
 - d. Grant will reimburse up to 50% of the hourly pay rate.
 - e. Employed students will have an assigned supervisor with professional and/or academic training that aligns with WBL that will evaluate the student at regular intervals
 - f practice and demonstrate proficiency of knowledge & skills that typically performed by a permanent professional in field, demonstrate ability to solve real work problems in a typical work setting, and participate in professional development or opportunities to build on these skills
 - g. Will allow scheduled site visits of the WBL Coordinator to evaluate student in work setting
 - h Provide opportunity for work place tours and/or job shadowing for students
- 2 A representative designated by Smelter Service Corp. could serve on the Community Based Advisor for this grant

Both Smelter Service Corp. and Columbia State Community College shall comply with all applicable State and Federal laws and regulations, including without limitation with the Family Educational Rights and Privacy Act (FERPA) and College policies and guidelines in the performance of this agreement.

This Agreement shall be effective for the period commencing on November 1, 2019 and ending on March 31, 2022. This agreement may be terminated by either party by giving written notice to the other at least thirty (30) days before effective date of termination.

IN WITNESS WHEREOF:

Smelter Service Corporation:


Sara Williams, Leader of Cultural Development

9.4.19
Date



COLUMBIA STATE COMMUNITY COLLEGE

GCP Applied Technologies
2014 Knoxville, TN 37919
(615) 521-1111
gcpai.com

Anthony Ty Fox
Operations Manager
1000 10th Avenue
Knoxville, TN 37919
(615) 521-1111

**AGREEMENT BETWEEN
Columbia State Community College AND
GCP Applied Technologies
TN GIVE GRANT: Engineering Systems Mobile Classroom
November 1, 2019- March 31, 2022**

This document attests GCP Applied Technologies support of Columbia State Community College's 2019 TN GIVE Grant, **Engineering Systems Mobile Classroom**. Upon the awarding of TN Give Grant funds associated with this proposal and TDR approval, GCP Applied Technologies agrees to the following:

1. Offer at least one work-based learning (WBL) experiences for Columbia State Engineering Systems Technology students associated with this grant. The WBL students will be hired through State of Tennessee Work Force Development (WFD). Specifically, the WBL will:
 - a. Be at least for 180 hours
 - b. It will be a paid work experience with a **suggested starting hourly pay rate of at least \$12.50**
 - c. Students will work for a minimum of 20 **hours a week with at least one full day (e.g., 8 hours)**
 - d. Grant will pay up to \$8.25 per hour and workman's comp will be covered by WFD.
 - e. Employed students will have an assigned supervisor with professional and/or academic training that aligns with WBL that will evaluate the student at regular intervals.
 - f. practice and demonstrate proficiency of knowledge & skills that typically performed by a permanent professional in field, demonstrate ability to solve real work problems in a typical **work setting, and participate in professional development or opportunities to build on these skills**
 - g. Will allow scheduled site visits of the WBL Coordinator to evaluate student **in work setting**
2. A representative designated by GCP Applied Technologies could serve on the Community Based Advisor for this grant.

Both GCP Applied Technologies and Columbia State Community College shall comply with all applicable State and Federal laws and regulations, including without limitation with the Family Educational Rights and Privacy Act (FERPA) and College policies and guidelines in the performance of this agreement.

This Agreement shall be effective for the period commencing on November 1, 2019 and ending on March 31, 2022. This agreement may be terminated by either party by giving written notice to the other at least thirty (30) days before effective date of termination.

IN WITNESS WHEREOF:

GCP Applied Technologies:

9-05-2019

Date

Anthony Ty Fox, Operations Manager

Columbia State Community College:

Janet F. Smith, Ph.D., President

Date

Tennessee Board of Regents:

Dr. Flora W. Tydings, Chancellor

Date



Spring Hill TN

Exceeding Expectations

AGREEMENT BETWEEN

Columbia State Community College AND
TENNECO

TN GIVE GRANT: Engineering Systems Mobile Classroom
November 1, 2019- March 31, 2022

This document attests TENNECO support of Columbia State Community College's 2019 TN GIVE Grant Engineering Systems Mobile Classroom. Upon the awarding of TN Give Grant funds associated with this proposal and TBR approval, TENNECO agrees to the following:

1. Offer at least one work-based learning (WBL) experience for Columbia State Engineering Systems Technology students associated with this grant. The WBL students will be hired through State of Tennessee Work Force Development (WFD). Specifically, the WBL will:
 - a. Be at least for 180 hours
 - b. It will be a paid work experience with a suggested starting hourly pay rate of at least \$12.50
 - c. Students will work for a minimum of 20 hours a week with at least one full day (e.g. 8 hours)
 - d. Grant will reimburse up to 50% of the hourly pay rate
 - e. Employed students will have an assigned supervisor with professional and/or academic training that aligns with WBL that will evaluate the student at regular intervals
 - f. practice and demonstrate proficiency of knowledge & skills that typically performed by a permanent professional in field demonstrate ability to solve real work problems in a typical work setting, and participate in professional development or opportunities to build on these skills
 - g. Will allow scheduled see visits of the WBL Coordinator to evaluate student in work setting
2. A representative designated by TENNECO could serve on the Community Based Advisor for this grant.

Both TENNECO and Columbia State Community College shall comply with all applicable State and Federal laws and regulations, including without limitation with the Family Educational Rights and Privacy Act (FERPA) and College policies and guidelines in the performance of this agreement.

This Agreement shall be effective for the period commencing on November 1, 2019 and ending on March 31, 2022. This agreement may be terminated by either party by giving written notice to the other at least thirty (30) days before effective date of termination.

IN WITNESS WHEREOF

TENNECO:

Greg Tompkins, Plant Manager

9.5.2019
Date

Columbia State Community College

Janet F. Smith, PhD, President

Date

Tennessee Board of Regents

Dr. Flora W. Tydings, Chancellor

Date

AGREEMENT BETWEEN
Columbia State Community College AND
TALOS Engineering Products.
TN GIVE GRANT: Engineering Systems Mobile Classroom
November 1, 2019- March 31, 2022

This document attests TALOS support of Columbia State Community College's 2019 TN GIVE Grant, *Engineering Systems Mobile Classroom*. Upon the awarding of TN Give Grant funds associated with this proposal and TBR approval, TALOS agrees to the following:

1. Offer at least one work-based learning (WBL) experiences for Columbia State Engineering Systems Technology students associated with this grant. The WBL students will be hired through State of Tennessee Work Force Development (WFD). Specifically, the WBL will
 - a. Be at least for 180 hours.
 - b. It will be a paid work experience with a suggested starting hourly pay rate of at least \$12.50
 - c. Students will work for a minimum of 20 hours a week with at least one full day (e.g., 8 hours)
 - d. Grant will reimburse up to 50% of the hourly pay rate.
 - e. Employed students will have an assigned supervisor with professional and/or academic training that aligns with WBL that will evaluate the student at regular intervals
 - f. practice and demonstrate proficiency of knowledge & skills that typically performed by a permanent professional in field, demonstrate ability to solve real work problems in a typical work setting, and participate in professional development or opportunities to build on these skills.
 - g. Will allow scheduled site visits of the WBL Coordinator to evaluate student in work setting
2. A representative designated by TALOS could serve on the Community Based Advisor for this grant

Both TALOS and Columbia State Community College shall comply with all applicable State and Federal laws and regulations, including without limitation with the Family Educational Rights and Privacy Act (FERPA) and College policies and guidelines in the performance of this agreement.

This Agreement shall be effective for the period commencing on November 1, 2019 and ending on March 31, 2022. This agreement may be terminated by either party by giving written notice to the other at least thirty (30) days before effective date of termination.

IN WITNESS WHEREOF:

TALOS:



Marie Lalonde, Human Resources Business Partner

Date

9-3-19

Columbia State Community College:

Janet F. Smith, Ph.D., President

Date

Tennessee Board of Regents:

Dr. Flora W. Tydings, Chancellor

Date



AGREEMENT BETWEEN

125 Southeast Parkway
Franklin, TN 37064
Office (615) 794-5574
FAX (615) 791-0060

**Columbia State Community College AND
APCOM**

**TN GIVE GRANT: Engineering Systems Mobile Classroom
November 1, 2019- March 31, 2022**

This document attests **APCOM** support of Columbia State Community College's 2019 TN GIVE Grant, *Engineering Systems Mobile Classroom*. Upon the awarding of TN Give Grant funds associated with this proposal and TBR approval, **APCOM** agrees to the following:

1. Offer at least one work-based learning (WBL) experiences for Columbia State Engineering Systems Technology students associated with this grant. The WBL students can be hired through the South Central TN Workforce Alliance (SCTWA). Specifically, the WBL will
 - a. Be at least for 180 hours.
 - b. It will be a paid work experience with a suggested starting hourly pay rate of at least **\$12.50**
 - c. Students will work for a minimum of **10** hours a week
 - d. Grant will reimburse up to 50% of the hourly pay rate
 - e. Employed students will have an assigned supervisor with professional and/or academic training that aligns with WBL that will evaluate the student at regular intervals
 - f. practice and demonstrate proficiency of knowledge & skills that typically performed by a permanent professional in field, demonstrate ability to solve real work problems in a typical work setting, and participate in professional development or opportunities to build on these skills.
 - g. Will allow scheduled site visits of the WBL Coordinator to evaluate student in work setting
 - h. Provide opportunity for work place tours and/or job shadowing for students
2. A representative designated by **APCOM** could serve on the Community Based Advisor for this grant

Both **APCOM** and Columbia State Community College shall comply with all applicable State and Federal laws and regulations, including without limitation with the Family Educational Rights and Privacy Act (FERPA) and College policies and guidelines in the performance of this agreement.

This Agreement shall be effective for the period commencing on November 1, 2019 and ending on March 31, 2022. This agreement may be terminated by either party by giving written notice to the other at least thirty (30) days before effective date of termination.

IN WITNESS WHEREOF:

APCOM:


Amy Williams, HR Manager

9/4/19
Date

Columbia State Community College:

Janet F. Smith, Ph.D., President

Date

Tennessee Board of Regents:

Dr. Flora W. Tydings, Chancellor

Date

LAWRENCE COUNTY SCHOOL SYSTEM

Johnny McDaniel, Director of Schools
700 Mahr Avenue • Lawrenceburg, TN 38464
931 762-3581

AGREEMENT BETWEEN

**Columbia State Community College AND
Lawrence County Schools
TN GIVE GRANT: Engineering Systems Mobile Classroom
November 1, 2019- March 31, 2022**

This document attests Lawrence County Schools' support of Columbia State Community College's 2019 TN GIVE Grant, Engineering Systems Mobile Classroom. Upon the awarding of TN Give Grant funds associated with this proposal and TBR approval, Lawrence County Schools agrees to the following:

1. Participation of at least one High School Teachers in Technical training and other activities put forth in the grant.
2. A representative designated by Lawrence County Schools will serve on the Community Based Advisor for this grant.
3. Students will be taking dual credit courses based on an articulation between Columbia State Community College and Lawrence County.
4. Students will take dual enrollment course using the EST Mobile Classroom.
5. Work with Columbia State faculty in the placement of 12th grade Engineering Systems Technology (EST) students into WWL placements provided as a result of TN GIVE Grant funding.
6. Attendance of at least one high school CTE teacher or CTE Director at one of four designated conferences (Attendance funded by this TN GIVE Grant.)

Both the Lawrence County Schools and Columbia State Community College shall comply with all applicable State and Federal laws and regulations, including without limitation with the Family Educational Rights and Privacy Act (FERPA) and College policies and guidelines in the performance of this agreement.

This Agreement shall be effective for the period commencing on November 1, 2019 and ending on March 31, 2022. This agreement may be terminated by either party by giving written notice to the other at least thirty (30) days before effective date of termination.

IN WITNESS WHEREOF:

Lawrence County Schools:

 Shannon Watson, CTE Director

Date

September 5, 2019

Columbia State Community College:

Janet F. Smith, Ph.D., President

Date

Tennessee Board of Regents:

Dr. Flora W. Tydings, Chancellor

Date

Schools and the Community: Working Together for Student Success



DATE: September 5, 2019

RE: Columbia State Community College 2019 TN GIVE Grant Proposals

This document attests Maury Alliance's support of Columbia State Community College's 2019 TN GIVE Grant proposals.

- 1.) *Integration of WBL into Curricular Pathways*
- 2.) *Cyber Defense Mobile.*
- 3.) *Engineering Systems Mobile Classroom*
- 4.) *Film Crew Technology, Machinery, & Set Construction*

Upon the awarding of TN Give Grant funds associated with these grant projects and TBR approval, Maury Alliance will help to endorse the networking opportunities among the TN GIVE Grant educational and industry partners. Additionally, Maury Alliance to serve on the Center of WBL Industry Involvement Advisory Board (CWBL-II).

The Maury Alliance is especially interested in supporting this application as we frequently receive feedback from local advanced manufacturers regarding the need for more robust and aligned middle skills training programs to support the growth of their industries. In Maury County, manufacturing employment accounts for approximately double the national average. According to the Bureau of Labor Statistics, Maury County led the State of Tennessee in manufacturing job growth (QCEW 2017 Annual Averages). Furthermore, with a current active economic development projects pipeline of 19 projects representing the potential for 4,871 additional jobs and \$1,698,321,000 in new capital investment, we anticipate Maury County to remain an engine for Tennessee's manufacturing growth into the foreseeable future.



Columbia | Mt Pleasant | Spring Hill
MAURY COUNTY
Chamber & Economic Alliance

As part of the support, Maury Alliance also acknowledges the 30-month duration of the TN GIVE Grant period of November 1, 2019-March 31, 2022 and agrees to work with Columbia State within that TN GIVE Grant period.

The Maury Alliance greatly appreciates the opportunity to partner with Columbia State Community College in support of this critically important effort.

Maury Alliance,

9/5/19

Travis Groth, Vice President – Economic Development

Date

Columbia State Community College:

Janet F. Smith, Ph.D., President

Date

AMY BRYANT
6600 S. 1st. Cross Rd., Lynch, TN 37000

RONALD D. GARRISON
6410 Maple Ln., Lynch, TN 37000

TIM HOBBS
8239 Old Oak Apts. Rd., Bartlett, TN 37006

JIM HUGHES
1917 E. Salsbery Rd., Cantonville, TN 37023



Michelle Gilbert
Director of Schools
116 Harrison Avenue
Cantonville, TN 37023

JANE HERRON
1222 Hwy 119, Cantonville, TN 37023

STEVE GARBARO
9700 Deerpark Dr., Oak Ridge, TN 37834

VANCE WELLS
2800 Hwy 19 N., Humboldt, TN 37107

**AGREEMENT BETWEEN
Columbia State Community College AND
Hickman County Schools**

**TN GIVE GRANT: Engineering Systems Mobile Classroom
November 1, 2019- March 31, 2022**

This document attests Hickman County Schools' support of Columbia State Community College's 2019 TN GIVE Grant, *Engineering Systems Mobile Classroom*. Upon the awarding of TN Give Grant funds associated with this proposal and TBR approval, Hickman County Schools agrees to the following:

1. Participation of at least one High School Teachers in Technical training and other activities put forth in the grant
2. A representative designated by Hickman County Schools will serve on the Community Based Advisor for this grant
3. Students will be taking dual credit courses based on an articulation between Columbia State Community College and Hickman County
4. Students will take dual enrollment course using the EST Mobile Classroom.
5. Work with Columbia State faculty in the placement of 12th grade Engineering Systems Technology (EST) students into WBL placements provided as a result of TN GIVE Grant funding
6. Attendance of at least one high school CTE teacher or CTE Director at one of four designated conferences. (Attendance funded by this TN GIVE Grant.)

Both the Hickman County Schools and Columbia State Community College shall comply with all applicable State and Federal laws and regulations, including without limitation with the Family Educational Rights and Privacy Act (FERPA) and College policies and guidelines in the performance of this agreement.

This Agreement shall be effective for the period commencing on November 1, 2019 and ending on March 31, 2022. This agreement may be terminated by either party by giving written notice to the other at least thirty (30) days before effective date of termination.

IN WITNESS WHEREOF:

Hickman County Schools:

Kathy Dick
Kathy Dick, Early Post Secondary Supervisor

9-4-19
Date

Columbia State Community College:

Janet F. Smith, Ph.D., President

Date

Tennessee Board of Regents:

Dr. Flora W. Tydings, Chancellor

Date



Jeremy Qualls
CCTE Executive Director
Williamson County Schools

September 4, 2019

To Whom It May Concern,

This letter attests the support of the College, Career and Technical Education Department of Williamson County Schools and Columbia State Community College for the 2019 TN GIVE Grant proposal for the following proposals and the funding that is associated with these proposals and TBR approval.

1. Integration of WBL into Curricular Pathways
2. Cyber Defense Mobile
3. Engineering Systems Mobile Classroom
4. Film Crew Technology, Machinery, & Set Construction

Respectfully,

A handwritten signature in cursive script that reads "Jeremy Qualls".

Jeremy Qualls



Giles County School System

Dr. Vickie Beard, Director
270 Richland Drive
Pulaski, TN 38478
Phone: 931.363.4558

August 30, 2019

To Whom It May Concern:

The Giles County School System supports the application for the TN GIVE Grant, Integration of WBL into Curricular Pathways. We are excited to be a part of this endeavor in association with the South Central TN Workforce Alliance and Columbia State Community College.

This grant will enable Giles County to have student and teacher participation in a variety of events pertaining to teacher training, workforce development of our students, and interaction with other participants in the form of professional development and in-service opportunities.

We believe that this gives our school district the opportunity to assess the needs of the workforce landscape and better align classroom and lab experiences for our students to those needs. Additionally, we believe that any work based experience and post secondary student involvement will better prepare our students for enriched career opportunities.

Giles County Schools is appreciative of this opportunity and we look forward to improving teacher and student based activities through the opportunities that this affords us.

Sincerely,

A handwritten signature in cursive script that reads "Keith Stacey".

Keith Stacey, Assistant Director



September 4, 2019

To Whom It May Concern:

The South Central TN Workforce Alliance is pleased to offer its support and partnership for Columbia State Community College's proposal for the GIVE (Governor's Investment in Vocational Education) Grant. Work Based Learning is a proven strategy that positively impacts the lives young people to bridge the gap between high school and high demand careers in business and industry.

In 2016, The South Central TN Workforce Alliance partnered with Columbia State to provide Internship opportunities for students enrolled in Maury and Williamson County Schools. The TN LEAP 2.0 Mechatronics Accelerated Completion Program (MAC Pro) project served over 1,000 students in the Maury and Williamson County schools systems, with over 500 students receiving college credit, WBL opportunities and Industry Certifications.

We are proud to continue this successful partnership and plan to build upon and grow more Work Based Learning opportunities to students in our region through the GIVE Initiative.

Respectfully,

A handwritten signature in blue ink, appearing to read "Tonja Garrett".

Tonja Garrett
Chief Operating Officer
South Central TN Workforce Alliance
5000 Northfield Lane, Suite 124
Spring Hill, TN 37174

5000 Northfield Lane, Suite 124 • Spring Hill, TN 37174
931.398.6000 • fax # 931.486.0033 • www.sctworkforce.org

Board Chairman – Robby Moore

South Central Tennessee Workforce Alliance/Administrative Entity

TTY # 931.388.3869



APCOM

125 Southeast Parkway
Franklin, TN 37068-1149

September 6, 2019

To Whom It May Concern:

APCOM is pleased to offer its support and partnership for Columbia State Community College's proposal for the GIVE Grant. Work Based Learning is a proven strategy that positively impacts the lives young people to bridge the gap between high school and high demand careers in business and industry.

APCOM provided Internship opportunities for students enrolled in Maury and Williamson County Schools (**TN LEAP 2.0 Mechatronics Accelerated Completion Program (MAC Pro)**). We were able to employ 10 student interns for this project. Student were able to learn manufacturing industry from machine operating, safety guidelines and operating procedures, workplace expectations and policies, production information and basic mechanical troubleshooting.

This collaboration with collaboration allowed APCOM to sustain the program by building an internship program by providing additional support to our operations and our mechanical engineers developmental opportunity to mentor those students in the internship program. We were able to look to these students for selection for internship opportunities and gave one student the opportunity to move into a direct engineering internship.

We look forward to partnering with Columbia State Community College in the future to expand Work Based Learning opportunities for students in the region.

Respectfully,

A handwritten signature in black ink that reads 'Nicole Smith'. The signature is written in a cursive, flowing style.

Nicole Smith

Appendix B: Sample Articulation Agreements/ Curricular Pathways

DocuSign Envelope ID: A64AD4EA-2B0F-4C9A-6D34-37A4DA37217C

**TENNESSEE BOARD OF REGENTS
COMMUNITY COLLEGE
DUAL CREDIT CONDITIONS AND AGREEMENT
BETWEEN
Columbia State Community College
AND
Hickman County Schools
For 2019-20—2023-24 Academic Year**

High school students within the Hickman County Schools System who pass the dual credit course(s) listed are eligible to be administered the corresponding end of course evaluation.

<u>High School Course</u>	<u>College Course</u>	<u>College Credits</u>
Mechatronics I	EETC 1311 Electrical Circuit I	3
Mechatronics I	EETC 1360 Mechanical Power Transmission	3
Mechatronics II	ENST 2361 Fluid Power Systems	3
Mechatronics II	EETC 2361 Instrumentation Technology	3

Students who receive the minimum passing score, determined by the College, on the respective end of course assessment(s) can receive college credit at Columbia State Community College, in accordance with TBR's Early Postsecondary Opportunities Policy 2.01.00.05.

Upon conferment of a diploma from a high school in the Hickman County Schools System, the student will notify the high school of his/her intent to attend Columbia State Community College. The high school will verify test scores and submit application for processing. For those students who meet all articulation requirements:

1. The student must be admitted to Columbia State Community College through the normal admissions and registration processes.
2. Upon the student's request, the high school will be responsible for ensuring all student documentation is forwarded to the Columbia State Community College Admissions office.
3. Other requirements as listed on Attachment A.

Columbia State Community College faculty will be responsible for creating, administering, and assessing the dual credit end of course assessment.

Course credit will be awarded upon being officially admitted and enrolled at Columbia State Community College. The corresponding college course, credit hours/ clock hours, and a grade of "Pass" will be shown on the Columbia State Community College transcript. Transfer of this dual credit to other institutions is at the discretion of the receiving institution.

Both the Hickman County Schools System and Columbia State Community College shall comply with all applicable State and Federal laws and regulations, including without limitation with the Family Educational Rights and Privacy Act (FERPA) and College policies and guidelines in the performance of this agreement.

This Agreement shall be effective for the period commencing on July 1, 2019 and ending on June 30, 2024. This agreement may be terminated by either party by giving written notice to the other at least thirty (30) days before effective date of termination.

IN WITNESS WHEREOF

Hickman County Schools:


DocuSigned by:

Michelle Gilbert, Director of Schools

2019-06-08 | 7:25 AM PDT

Date

Columbia State Community College:

DocuSigned by:

Janet Smith, Ph.D., President

2019-06-11 | 10:05 AM PDT

Date

Tennessee Board of Regents:

DocuSigned by:

Flora W. Tydings, Chancellor



2019-06-11 | 3:17 PM CDT

Date

735 82 10-126

Columbia State Community College Contract Approval Form

Instructions: Attach this form to all contracts. Include three (3) originals of all contracts. Check all items listed below that apply, then route to the appropriate Vice President for approval. If the contract is not approved as it moves through the process, it will be returned to the last approving party with notes of concern for resolution of issues.

To Be Completed by Contract Originator

Name of Contracting Party <u>Columbia State Community College and Maury County Schools</u>	
Short Description/Reason for Contract <u>Articulation agreement for Mechatronics I to begin in 2016-2017 school year.</u>	
Obligations of Institution <u>To accept Mechatronics I with a B or better for the equivalent of 1 credit and with the student score of 70% or higher on 4 comprehensive multiple-choice exams covering the concepts of these AIT courses: AIT 1001, AIT 1002, AIT 1003 and AIT 1301.</u>	
Obligations of Contracting Party <u>To cover topics that would be covered in the above listed courses: Basic Electricity, Power Development, Hydraulic/Pneumatic Fundamentals, Principles of Instrumentation</u>	
<input type="checkbox"/> 1. The contract requires the expenditure of funds from fund/organization no. _____ in the amount of \$ _____	
<input type="checkbox"/> 2. Funds are being received from the contract in the amount of \$ _____	
<input checked="" type="checkbox"/> 3. No funds are involved in the execution of the contract.	
Signature <u><i>Don D. Long</i></u>	Date <u>3/2/16</u>

To Be Completed by Appropriate Vice President

I have reviewed the attached contract. It is consistent with the mission and operational, curricular, and/or student needs or requirements. I recommend it to the President for signature.	
Signature <u><i>Fargaret Smith</i></u>	Date <u>3-2-16</u>

To Be Completed by Business Manager

I have reviewed the attached contract. It is in compliance with TBR Contract Guideline G-030 and funds are available to fulfill the contract. Based on these criteria, I recommend it to the President for signature.	
Signature <u><i>Ann Brewer</i></u>	Date <u>3/8/16</u>

When approved return to Ann Brewer

[Signature]
President's Approval

ARTICULATION AGREEMENT
Mechatronics I

Advanced Integrated Industrial Technology - First 6 hours of AIT Course Work
Columbia State Community College
and
Maury County Schools

STATEMENT OF INTENT

This agreement, entered into by the parties will provide methods of advance placement to students who complete the stated courses, or a sequence of courses along with other specified requirements. The purpose of this agreement is to encourage students to build on past learning experience and eliminate unnecessary duplication of instruction.

AGREEMENT

This agreement will start with the beginning of the 2016-17 school year and end June 30, 2021. This agreement may be terminated by either party by giving thirty (30) days written notice to the other.

The courses listed below have met the learning outcomes established by Columbia State Community College for the designated college courses.

<u>High School Course</u>	<u>College Course</u>	<u>College Credits</u>
Mechatronics I with a B or better for the equivalent of 1 credits	AIT 1001 Basic Electricity	2
	AIT 1002 Power Development	1
	AIT 1003 Hydraulic/Pneumatic Fundamentals	1
	AIT 1301 Principles of Instrumentation	2

Additional Requirements

Score 70% or higher on 4 comprehensive multiple-choice exams covering the concepts in each AIT course. A variety of questions will be asked to assess knowledge, comprehension and application of concepts including demonstration of skills in a lab/practicum. The exams will be administered during a timed 2 hour time block.

PROCEDURES

Students wishing to participate in the articulation program must:

1. Meet specific performance requirements as outlined above.
2. Attend the Columbia State Community College assessment day and meet assessment requirements as stated.
3. Complete application for permission to take Credit by Exam and pay Credit by Examination fee (current fee for 2015-2016 is \$25 per course).
4. Pass the assessment requirements for each course for which credit is requested.
5. Enroll at Columbia State Community College within two (2) years of the date of graduation from high school and successfully complete 12 semester hours of resident credit (excluding development studies courses).
6. Contact the Science Technology and Mathematics Division at Columbia State Community College to request the articulated credit.

 President, Columbia State Community College

 Date

 Director of Schools

 Date

832 82 18-177

**Columbia State Community College
Contract Approval Form**

Instructions: Attach this form to all contracts. Include three (3) originals of all contracts. Check all items listed below that apply, then route to the appropriate Vice President for approval. If the contract is not approved as it moves through the process, it will be returned to the last approving party with notes of concern for resolution of issues.

To Be Completed by Contract Originator

Name of Contracting Party <u>Columbia State Community College and Maury County Schools</u>	
Short Description/Reason for Contract <u>Articulation agreement for Mechatronics II to begin in the 2016-2017 school year.</u>	
Obligations of Institution <u>To accept Mechatronics II with a B or better for the equivalent of 1 credit and with the student score of 70% or higher on 4 comprehensive multiple-choice exams covering the concepts of these AIT courses: AIT 1600, AIT 1101, AIT 1102, AIT 1201, AIT 1202.</u>	
Obligations of Contracting Party <u>To cover topics that would be covered in the above listed courses: Workplace Safety, Electrical Power Distribution, Fluid Power Distribution, Electrical Installation, Piping & Pneumatic Installation.</u>	
<input type="checkbox"/> 1. The contract requires the expenditure of funds from fund/organization no. _____ in the amount of \$ _____.	
<input type="checkbox"/> 2. Funds are being received from the contract in the amount of \$ _____.	
<input checked="" type="checkbox"/> 3. No funds are involved in the execution of the contract.	
Signature <u>David D. Lutz</u>	Date <u>3/2/16</u>

To Be Completed by Appropriate Vice President

I have reviewed the attached contract. It is consistent with the mission and operational, curricular, and/or student needs or requirements. I recommend it to the President for signature.	
Signature <u>Margaret A. Smith</u>	Date <u>3.2.16</u>

To Be Completed by Business Manager

I have reviewed the attached contract. It is in compliance with TBR Contract Guideline G-030 and funds are available to fulfill the contract. Based on these criteria, I recommend it to the President for signature.	
Signature <u>Em Brewster</u>	Date <u>3/8/16</u>

When approved return to Em Brewster

[Signature]
President's Approval

ARTICULATION AGREEMENT**Mechatronics II****Advanced Integrated Industrial Technology – Second 6 hours of AIT Course Work****Columbia State Community College****And****Maury County Schools****STATEMENT OF INTENT**

This agreement entered into by the parties will provide methods of advance placement to students who complete the stated courses, or a sequence of courses along with other specified requirements. The purpose of this agreement is to encourage students to build on past learning experience and eliminate unnecessary duplication of instruction.

AGREEMENT

This agreement will start with the beginning of the 2016-17 school year and end June 30, 2021. This agreement may be terminated by either party by giving thirty (30) days written notice to the other.

The courses listed below have met the learning outcomes established by Columbia State Community College for the designated college courses.

<u>High School Course</u>	<u>College Course</u>	<u>College Credits</u>
Mechatronics II with a B or better for the equivalent of 1 credits	AIT 1600 Workplace Safety	1
	AIT 1101 Electrical Power Distribution	1
	AIT 1102 Fluid Power Distribution	2
	AIT 1201 Electrical Installation	1
	AIT 1202 Piping & Pneumatic Installation	1

Additional Requirements

Score 70% or higher on 4 comprehensive multiple choice exams covering the concepts in each AIT course. A variety of questions will be asked to assess knowledge, comprehension and application of concepts including demonstration of work in a lab/practicum. The exams will be administered during a timed 2 hour time block.

PROCEDURES

Students wishing to participate in the articulation program must:

1. Meet specific performance requirements as outlined above.
2. Attend the Columbia State Community College assessment day and meet assessment requirements as stated.
3. Complete application for permission to take Credit by Exam and pay Credit by Examination fee (current fee for 2015-2016 is \$25 per course).
4. Pass the assessment requirements for each course for which credit is requested.
5. Enroll at Columbia State Community College within two (2) years of the date of graduation from high school and successfully complete 12 semester hours of resident credit (excluding development studies courses).
6. Contact the Science Technology and Mathematics Division at Columbia State Community College to request the articulated credits.


 President, Columbia State Community College

 3/10/16
 Date


 Director of Schools

 4/22/16
 Date



TENNESSEE COLLEGE OF APPLIED TECHNOLOGY

PULASKI

AGREEMENT BETWEEN

**Columbia State Community College AND
TCAT Pulaski**

**TN GIVE GRANT: Integration of WBL into Curricular Pathways &
Engineering Systems Mobile Classroom
November 1, 2019- March 31, 2022**

This document attests TCAT Pulaski's support of Columbia State Community College's 2019 TN GIVE Grant proposals:

- 1.) *Integration of WBL into Curricular Pathways*
- 2.) *Engineering Systems Mobile Classroom*

Upon the awarding of TN Give Grant funds associated with this proposal and TBR approval, TCAT Pulaski agrees to the following:

1. Sign articulation agreements with Columbia State for the following curricular pathways:
 - a. Industrial Maintenance Technology program at TCAT Pulaski/Engineering Systems Technology AAS degree at Columbia State.
 - b. Furthermore, Columbia State Mobile Classroom will be at the TCAT Pulaski to allow students to complete more advanced EST courses on site toward their AAS in Engineering Systems Technology degree.
2. Participation of TCAT Pulaski students in any of the above TN GIVE Grant proposals are upon student's completion of their certificate/diploma at TCAT Pulaski.
3. Participation in in-service faculty training and other activities funded by this grant
4. Host at least one faculty/ teacher in-service activity
5. Attendance of at least one faculty at one of four designated conferences. (Attendance funded by this TN GIVE Grant.)

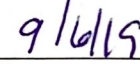
Both the TCAT Pulaski and Columbia State Community College shall comply with all applicable State and Federal laws and regulations, including without limitation with the Family Educational Rights and Privacy Act (FERPA) and College policies and guidelines in the performance of this agreement.

This Agreement shall be effective for the period commencing on November 1, 2019 and ending on March 31, 2022. This agreement may be terminated by either party by giving written notice to the other at least thirty (30) days before effective date of termination.

IN WITNESS WHEREOF:

TCAT Pulaski:


Mike Whitehead, President


Date

Columbia State Community College:

Janet F. Smith, Ph.D., President

Date

Tennessee Board of Regents:

Dr. Flora W. Tydings, Chancellor

Date

Appendix C: Budget Plan

GRANT BUDGET				
GIVE Program Competitive Grant				
The grant budget line-item amounts below shall be applicable only to expenses incurred during the following				
Applicable Period: BEGIN: October 24, 2019 END: April 25, 2022				
POLICY 03 Object Line-item Reference	EXPENSE OBJECT LINE- ITEM CATEGORY ¹	GRANT CONTRACT	GRANTEE PARTICIPATION	TOTAL PROJECT
1, 2	Salaries, Benefits & Taxes	\$427,648.00	0.00	\$427,648.00
4, 15	Professional Fee, Grant & Award ²	\$22,000.00	0.00	\$22,000.00
5, 6, 7, 8, 9, 10	Supplies, Telephone, Postage & Shipping, Occupancy, Equipment Rental & Maintenance, Printing & Publications	\$24,840.00	0.00	\$24,840.00
11, 12	Travel, Conferences & Meetings	0.00	0.00	0.00
13	Interest ²	0.00	0.00	0.00
14	Insurance	0.00	0.00	0.00
16	Specific Assistance To Individuals	0.00	0.00	0.00
17	Depreciation ²	0.00	0.00	0.00
18	Other Non-Personnel ²	0.00	0.00	0.00
20	Capital Purchase ²	\$451,437.92	0.00	\$451,437.92
22	Indirect Cost	\$74,074.08	0.00	\$74,074.08
24	In-Kind Expense	0.00	0.00	0.00
25	GRAND TOTAL	1,000,000.00	0.00	\$1,000,000.00

Grant Budget Line Item Details

<i>Line</i>	<i>Description</i>	<i>Cost</i>	
		<i>Annual</i>	<i>30 Months</i>
1.	Salaries (includes 2.5% annual cost of living increase)		\$ 358,374
	Instructor/Facilitator	\$56,000	\$142,817
	SCTWA Assistance (Assist WBL Coordinator & industry partners)	\$21,000	\$53,557
	Students reimbursement for the five counties	\$81,000	\$162,000
2.	Employee Benefits & Payroll Taxes (22.68% for contractors)		\$ 69,274
	Instructor/Facilitator	\$ 22,400	\$57,127
	SCTWA Assistance (Assist WBL Coordinator & industry partners)	\$ 4,763	\$12,147
4.	Professional Fees		\$ 22,000
	CSCC Instructor Training	\$ 2,700	\$ 5,400
	High School Teachers Training	\$ 16,600	\$ 16,600
5.	Supplies		\$4,860.00
	Cell phone	\$ 680.00	\$ 860.00
	Laptop	\$ 4,000	\$ 4,000
8.	Equipment		\$ 19,980
	Maintenance	\$ 3,000	\$ 7,500
	Fuel	\$ 4,992	\$ 12,480
20.	Capital Purchases		\$ 451,437.92
	Box Truck	\$ 90,000	\$ 90,000
	Training Equipment	\$ 361,437.92	\$ 361,437.92
22.	Indirect Costs (8% of direct)		\$ 74,074.08
24.	Total		\$ 1,000,000